

International Application No. PCT/EP03/11181
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ABSTRACT OF THE DISCLOSURE

A reactor and a process for solid phase continuos polymerisation of polyethylene terephthalate (PET) in order to achieve an increase of the intrinsic viscosity (I.V.) of a low molecular weight PET pre-polymers flow. A plurality of fluidised stages in series (109; 309) are provided and said PET pre-polymers flow is fed into said fluidised stages in series (109; 309). An inert gas flow is fed either in cross-flow or in counter-current flow with respect to the PET pre-polymers flow.